

10/702,038  
DOCKET NO. P21-163397M/YS

2

**AMENDMENTS TO THE CLAIMS:**

Claim 1. (Previously presented) A lock apparatus for attaching a container member to a support member openably, the lock apparatus comprising:

an operation handle;

a spring, which is movably supported by the container member;

a slide pin, which is urged in a direction of a lock hole defined on the support member by the spring, respectively;

a cam member to which a rear end portion of the slide pin is fitted to urge the slide pin to project and retract; and

an O-ring in a containing groove of the cam member, wherein:

when the operation handle is operated in a swing manner, a front end portion of the slide pin is retracted from the lock hole of the support member against pressure of the spring; and

the containing groove communicates with a cam groove on the cam member.

Claim 2. (Previously presented) The lock apparatus according to claim 1, wherein the rear end portion of the slide pin is connected to the cam member to be swingable.

Claim 3. (Previously presented) The lock apparatus according to claim 23, further comprising:

a stopper piece between the elastic pieces of the slide pin; and

an elastic contact piece, for elastically contacting with the stopper piece, on a surface of the cam member, which corresponds to the stopper piece.

10/702,038

3

DOCKET NO. P21-163397M/YS

Claim 4. (Currently amended) The lock apparatus according to claim 3, wherein a rib wall, for preventing erroneous assembly, is provided on an inner side surface of the cam member, which is opposed to the elastic contact piece of the cam member.

Claim 5. (Previously presented) The lock apparatus according to claim 1, further comprising:

an outer cylindrical member continuously formed on one of the operation handle and the slide pin, wherein the O-ring slide-contacts with the outer cylindrical member and the cylindrical portion of the cam member simultaneously.

Claim 6. (Previously presented) The lock apparatus according to claim 5, wherein the cylindrical portion of the cam member comprises the containing groove to which the O-ring is attached.

Claim 7. (Original) The lock apparatus according to claim 6, wherein the containing groove is formed in a recessed shape to isolate the O-ring.

Claim 8. (Previously presented) The lock apparatus according to claim 6, further comprising:

a projected portion on the outer cylindrical member,  
wherein the projected portion moves in the cam groove; and  
the cam groove is on the cylindrical portion of the cam member.

10/702,038

4

DOCKET NO. P21-163397M/YS

Claim 9. (Currently amended) The lock apparatus according to claim 5, wherein:

the outer cylindrical member comprises a bottom surface;

the lock apparatus further comprises a projected portion on the other of the cylindrical portion of the cam member and the outer cylindrical member; ~~wherein:~~

the cam groove is on one of the cylindrical portion of the cam member and the outer cylindrical member;

the projected portion moves in the cam groove; and

the projected portion and the cam groove are in a space blocked by the O-ring.

Claim 10. (Currently amended) A lock comprising:

a cam comprising a pair of engaging holes;

a slide pin comprising a bifurcated structure comprising elastic pieces that each comprises ~~comprise~~ projections that each engage a corresponding one of said pair of engaging holes; and

an O-ring in a containing groove on the cam, wherein the containing groove communicates with a cam groove in the cam.

Claim 11. (Previously presented) The lock of claim 10, wherein said pair of engaging holes are provided on opposing surfaces of a cylindrical portion of said cam.

Claim 12. (Previously presented) The lock of claim 10, wherein said slide pin is swingably connected to said cam by the engagement of said projection with said corresponding one of said pair of engaging holes.

10/702,038

5

DOCKET NO. P21-163397M/YS

Claim 13. (Previously presented) The lock of claim 10, wherein said slide pin further comprises a stopper between said elastic pieces.

Claim 14. (Previously presented) The lock of claim 13, wherein said cam further comprises an elastic contact for contacting said stopper.

Claim 15. (Previously presented) The lock of claim 14, wherein said cam further comprises a rib wall on an inner side surface and opposing said elastic contact.

Claim 16. (Previously presented) The lock of claim 10, further comprising:  
a handle,  
wherein one of said handle and said slide pin comprises an outer cylindrical member,  
and  
wherein said O-ring simultaneously, slidably contacts said outer cylindrical member  
and a cylindrical portion of said cam.

Claim 17. (Previously presented) The lock of claim 16, wherein said cam comprises the containing groove on said cylindrical portion that receives said O-ring.

Claim 18. (Previously presented) The lock of claim 17, wherein said containing groove is recessed.

Claim 19. (Previously presented) The lock of claim 17, wherein said cam comprises the

10/702,038

6

DOCKET NO. P21-163397M/YS

cam groove on said cylindrical portion that communicates with said containing groove, and wherein said outer cylindrical member comprises a projection received by said cam groove.

Claim 20. (Previously presented) The lock of claim 16, wherein:

said outer cylindrical member comprises a bottom surface;

one of said cylindrical portion of said cam and said outer cylindrical member comprises the cam groove; and

the other of said cylindrical portion of said cam and said outer cylindrical member further comprises a projection received by said cam groove such that said projection is blocked by said O-ring.

Claim 21. (Previously presented) The lock of claim 12, wherein said slide pin swings about an axis that is substantially perpendicular to an elongate axis of said slide pin.

Claim 22. (Previously presented) The lock apparatus of claim 1, wherein engagement holes are defined on opposed surfaces of a front end portion of the cam member having a cylindrical portion.

Claim 23. (Previously presented) The lock apparatus of claim 22, wherein the rear end portion of the slide pin is formed in a bifurcated structure comprising elastic pieces.

Claim 24. (Previously presented) The lock apparatus of claim 23, wherein each of said elastic pieces comprises a protrusion for detachably engaging with each of said engagement

10/702,038

7

DOCKET NO. P21-163397M/YS

holes.

Claim 25. (Currently amended) A lock apparatus for attaching a container member to a support member openably, the lock apparatus comprising:

an operation handle;

a spring which is movably supported by the container member;

a slide pin which is urged in a direction of lock holes defined on the support member by the spring; and

a cam member to which a rear end portion of the slide pin is fitted to urge the slide pin to project and retract, wherein:

when the operation handle is operated in a swing manner, a front end portion of the slide pin is retracted from a lock hole of the support member against pressure of the spring;

engagement holes are defined on opposed surfaces of a front end portion of the cam member having a cylindrical portion;

a rear end portion of the slide pin is formed in a bifurcated structure comprising elastic pieces;

each of said elastic pieces comprises a protrusion for detachably engaging with said engagement holes; and

rotation of said slide pin with respect to the cam member disengages the protrusions from the engagement holes.

Claim 26. (Currently amended) A lock comprising:

a cam that comprises a pair of engaging holes; and

10/702,038

8

DOCKET NO. P21-163397M/YS

a slide pin comprising a bifurcated structure comprising elastic pieces that each ~~comprises~~ comprise projections that each engage a corresponding one of said pair of engaging holes, wherein rotation of the slide pin with respect to the cam disengages the projections from the engagement holes.